

Abdulkerim Eroglu
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Assistant Professor in Nutrigenomics
Department of Molecular and Structural Biochemistry
North Carolina State University

<https://cals.ncsu.edu/molecular-and-structural-biochemistry/people/kerim-eroglu/>

CURRENT POSITION

North Carolina State University Assistant Professor of Biochemistry	Raleigh, NC 2018-Present
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EDUCATION and TRAINING

Johns Hopkins University Research Scholar	Baltimore, MD 2015-2018
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National Institutes of Health Postdoctoral Fellow	Bethesda, MD 2012-2015
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The Ohio State University PhD, Biochemistry	Columbus, OH 2006-2012
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GRANTS

Current

USDA-NIFA (AFRI Competitive Grant – Food and Human Health Program)

Project title: Carotenoids: a missing link between Gut Microbiota and Obesity

Project dates: **April 15, 2022 – April 14, 2026**

Project budget: **\$649,996**

Role: **Project Director**

Pending

NSF (RECOMMENDED for FUNDING – Cellular and Biochemical Engineering Program)

Project title: Engineering probiotic yeast to release intracellular molecules into the mammalian gut

Project dates: **September 01, 2022 – August 31, 2025**

Project budget: **\$677,611**

Role: **Co-Principal Investigator**

NSF (Submitted on June 06, 2022 – Symbiosis, Infection, and Immunity Program)

Project title: Harnessing Carotenoid Metabolism in the Gut Microbiota and Implications for Host Inflammation

Project dates: **September 01, 2023 – August 31, 2026**

Project budget: **\$677,611**

Role: **Principal Investigator**

NIH R01 (Submitted on June 03, 2022)

Project title: Engineering probiotic yeast to release intracellular molecules into the mammalian gut

Project dates: **April 01, 2023 – March 31, 2028**

Project budget: **\$1,767,646**

Role: **Co-Principal Investigator**

NIH R01 (Submitted on June 29, 2022)

Project title: Elucidating and Harnessing Carotenoid Metabolism in the Gut Microbiota

Project dates: **April 01, 2023 – March 31, 2028**

Project budget: **\$1,802,946**

Role: **Principal Investigator**

SHONORS and AWARDS

Early Career Faculty Award American Society for Biochemistry and Molecular Biology	2021
DSM Sight & Life Fellowship in Nutritional Biochemistry Center for Human Nutrition at Johns Hopkins University	2016-2018
Kagome Research Scholarship Department of Pharmacology and Molecular Sciences at Johns Hopkins University	2015-2016
Outstanding Poster Award FASEB Science Research Conference on Retinoids	2012
Outstanding Poster Award 9 th Annual Russell Klein Nutrition Research Symposium at the Ohio State University	2012
Graduate Student Travel Grant New Developments in Carotenoids Research an International Conference at Tufts University	2011
Poster Competition Winner (1st place) New Developments in Carotenoids Research an International Conference at Tufts University	2011
Outstanding Poster Award Carotenoid Research Interactive Group of American Society for Nutrition 2011 Meeting	2011

SELECTED PUBLICATIONS

- ◆ Durmusoglu D, Al'Abri IS, Collins SP, Cheng J, **Eroglu A**, Beisel CL, Crook N. In Situ Biomanufacturing of Small Molecules in the Mammalian Gut by Probiotic *Saccharomyces boulardii*. ACS Synth Biol. 2021 May 21;10(5):1039-1052.
- ◆ Lee SE, Schulze K, Stewart CP, Cole RN, Wu LS, **Eroglu A**, Yager JD, Groopman J, Christian P, West KP Jr. Plasma proteome correlates of lipid and lipoprotein: biomarkers of metabolic diversity and inflammation in children of rural Nepal. J Lipid Res. 2019 Jan;60(1):149-160.
- ◆ **Eroglu A**, Schulze KJ, Yager J, Cole RN, Christian P, Nonyane BAS, Lee SE, Wu LSF, Khatry S, Groopman J, West KP Jr. Plasma proteins associated with circulating carotenoids in Nepalese school-aged children. Arch Biochem Biophys. 2018 May 15;646:153-160.
- ◆ **Eroglu A**, Harrison EH. Carotenoid metabolism in mammals, including man: formation, occurrence, and function of apocarotenoids. J Lipid Res. 2013 Jul;54(7):1719-30.

For the complete list: <https://pubmed.ncbi.nlm.nih.gov/?term=abdulkerim%20eroglu>

TEACHING

Advanced Micronutrient Metabolism (Johns Hopkins University)	Fall 2016 Semester
General Chemistry (The Ohio State University)	Winter 2008, Spring 2008, and Summer 2008 Quarters

ADVISING

1 Biochemistry Ph.D. Student at North Carolina State University	2019-present
2 Biochemistry Master's Students at North Carolina State University	2019
2 Nutrition Master's Students at Johns Hopkins University	2017-2018
1 Visiting Scholar at the Ohio State University	2008-2010